

## Project #15-1287, NF (Xwqélém) Farmhouse Phase 2b

Current Status: Application Submitted

### Project Details

**Primary Sponsor:** Nooksack Indian Tribe

**Primary Contact:** Treva Coe  
(360) 592-5176 Ext 3286  
tcoe@nooksack-nsn.gov

**Funding Program:** Salmon State Projects

**Lead Entity:** WRIA 1 Salmon Recovery Board Lead Entity

**Project Type:** Restoration

### Project Description

The Nooksack Tribe will restore instream habitat in the North Fork Nooksack River, RM 47.9 – 48.2, near Kendall, Whatcom County. The goal is to address North/Middle Fork Nooksack chinook limiting factors of high channel instability and low habitat diversity. Specifically, this project will construct 16 log jams in a 0.3-mile river segment, to advance the second of six phases of restoration planned in the broader Farmhouse reach (RM 46.4-49). Log jams are designed to: (1) increase length of side channels available for spawning; (2) form pools and increase habitat diversity; and (3) promote forested island formation and persistence. The project is designed to benefit ESA-listed chinook, but it will also benefit ESA-listed steelhead and bull trout; coho, chum, riverine sockeye, and pink salmon; and cutthroat trout. North/Middle Fork Nooksack early chinook are essential for ESU recovery, but productivity is critically low. This project implements high priority actions in a high priority reach of the North Fork. . Given the forestry-dominated adjacent land use and relative lack of channel constraints, the Farmhouse reach presents an important opportunity to restore habitat-forming processes. The reach is also just upstream from the Kendall hatchery, site of the North Fork/Middle Fork Nooksack early chinook population rebuilding program, and the reach is heavily used, increasing certainty of benefit.

### Project Overall Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer
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#### Completion Date

Projected date of completion	12/31/2017
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#### Sponsor Match: Monetary Funding

Amount of other monetary funding (A.12)	\$140,442.00
Project identifier for the other monetary funding (A.12.b)	BIA, NWIFC EPA/PSP FY15
Source of other monetary funding (A.12.a)	BIA, NWIFC EPA/PSP

#### Sponsor Match: Donated Un-paid Labor (volunteers)

Value of Donated Unpaid Labor (Volunteers) (A.13.a.2)	\$0.00
Source of Donated Un-paid labor contributions (A.13.a.4)	N/A

#### Sponsor Match: Donated Paid Labor

Value of Donated Paid Labor (A.13.b.1)	\$0.00
Source of Donated Paid Contributions (A.13.b.2)	N/A

#### Sponsor Match: Other In-kind Contributions

Value of Other In-Kind Contributions (A.13.c.1)	\$0.00
Source of Other In-Kind Contributions (A.13.c.3)	N/A
Description of other In-Kind contributions (A.13.c.2)	N/A

### Project Funding

Funding Request		Funding %	Min Match Required	Sponsor Match Source	
Salmon State Projects (FY2016)	\$795,832	85.00 %		Grant - Other	\$140,442
Sponsor Match	\$140,442	15.00 %	15%		
<b>Total Project Funding</b>	<b>\$936,274</b>	<b>100.00 %</b>			

#### Project Cost Summary

##### RESTORATION COSTS

		Project %	Admin/A&E %	Maximum for Selected Program
Restoration	\$866,959			
A&E	\$69,315		8.00 %	\$260,088 (30%)
Subtotal	\$936,274	100.00 %		
<b>Total Cost Estimate</b>	<b>\$936,274</b>	<b>100.00 %</b>		

### Worksites and Properties

**General Area:** Upstream of WDFW  
Kendall Fish Hatchery

County: Whatcom

Legislative Districts 2012: 42

Congressional Districts 2012: 01

Salmon Recovery Regions: Puget Sound

DNR Watershed Units (WAU): Deming

4th Field Catalog Units (HUC): Nooksack

WRIA: Nooksack

Sections: 01

Township: T39NR05E

Coordinates: 48.90485947  
-122.10705664

## Worksite #1: Farmhouse Phase 2b

Coordinates from Mapped Point:	Latitude: 48.90485947	Longitude: -122.10705664
Coordinates from Worksite	Latitude: 48.898851	Longitude: -122.103996
Directions:		

**Worksite Description:** We will be installing ELJs at this site. The adjacent property on the right bank side of the project area is a recreational residential development. It is managed by the Glen at Maple Falls Community Association. The development includes both permanent and non-permanent structures, roads and other infrastructure. The right bank also has privately owned property that is an active equestrian center and residence. The left bank side of the project is undeveloped forest land owned by the Washington State Forest Board and managed by the Department of Natural Resources. There is an abandoned gravel pit southwest of the project area that is frequently used as an informal shooting range for fire arm enthusiasts.

**Site Access Directions:** The first access to the right bank is located off of HWY 542 in Deming, WA. Follow HWY 542 8 miles east of Deming and turn right on Eastwood Rd. Follow driveway to equestrian center at end of road to access river. The second, left bank access is located off North Fork Road in Deming, Whatcom County. Follow the North Fork Road for approximately 6.5 miles, the project access will be constructed on the north side of North Fork Road as part of Phase 1.

**Worksite Address:**

6375 Eastwood Rd  
Deming, WA 98244

## Restoration Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer	Work Type Costs
Targeted salmonid ESU/DPS (A.23)	Chinook Salmon-Puget Sound ESU, Chum Salmon-unidentified ESU, Coho Salmon-unidentified ESU, Pink Salmon-unidentified ESU, Steelhead-Puget Sound DPS	
Targeted species (non-ESU species)	Bull Trout, Cutthroat, Rainbow, Searun Cutthroat	
Miles Of Stream Treated/Protected (C.0.b)	0.30	
Project Identified In a Plan or Watershed Assessment (C.0.c)	1) WRIA 1 Salmon Recovery Board. 2005. WRIA 1 Salmonid Recovery Plan. Bellingham, WA. 2) WRIA 1 Salmon Recovery Board. 2014a. 2014 Nooksack River Forks Project Development Matrices. February 13, 2014. Bellingham, WA. 3) WRIA 1 Salmon Recovery Board. 2014b. 2014-2016 WRIA 1 3-Year Program. May 2014. Bellingham, WA.	
Type Of Monitoring (C.0.d.1)	Implementation Monitoring	
Monitoring Location (C.0.d.2)	Onsite	
<b>Instream Habitat Project</b>		
Total Miles Of Instream Habitat Treated (C.4.b)	0.30	
<b>Channel structure placement (C.4.d.1)</b>		
Total cost for Channel structure placement		\$863,959.00
Material Used For Channel Structure (C.4.d.2)	Logs Fastened Together (Logjam)	
Miles of Stream Treated for channel structure placement (C.4.d.3)	0.30	
Acres Of Streambed Treated for channel structure placement (C.4.d.4)	15.0	
Pools Created through channel structure placement (C.4.d.5)	8	
Yards Of Average Stream-Width At Mid-Point Of Worksite (C.4.d.6)	146	
Number of structures placed in channel (C.4.d.7)	16	
<b>General restoration activities</b>		
<b>Implementation monitoring</b>		
Total cost for Implementation monitoring		\$3,000.00
Number of site visits	4	
<b>Architectural &amp; Engineering</b>		
<b>Architectural &amp; Engineering (A&amp;E)</b>		
Total cost for Architectural & Engineering (A&E)		\$69,315.00

## Restoration Questions

1 of 6 **Has the worksite been investigated for historical, archeological, or cultural resources? If yes, when did this occur and what agencies and tribes were consulted? Attach related documents (letters, surveys, agreements, etc.) to your project in PRISM.**

No, No. We have consulted the Nooksack Indian Tribe Cultural Resources Department (NIT CRD) for Farmhouse Phase 1, which is in the same vicinity. We plan to consult the NIT CRD specifically on this project.

**2 of 6 What is the current land use of the site? Has there been ground disturbances historically, if so, what are/were those disturbances? Is there any fill where ground disturbance is proposed? If known, how deep is the fill?**

The adjacent property on the right bank side of the project area is a recreational residential development. It is managed by the Glen at Maple Falls Community Association. The development includes both permanent and non-permanent structures, roads and other infrastructure. There are two additional private properties on the right bank, 1) the Harvey Henry property that is primarily forested and used for recreation; and 2) the Roger McMunn property which is a large equestrian center with several structures, pastures and fields on the property. The active channel is owned by WADNR Aquatic Lands and is undeveloped. The left bank side of the project area is owned by WA DNR State Lands and managed for timber harvest and habitat. There is also a gravel pit on the left bank that is an active shooting range.

**3 of 6 Is the worksite(s) located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site? If yes, name the area and specify if the land is owned by local, state or federal government.**

Yes, The project is located on state WADNR Aquatic Lands that area managed for aquatic habitat. Boaters recreate on the North Fork Nooksack River. The Glen property is a private recreational residential community including recreational facilities such as a pool, frisbee golf course, mountain bike trail, etc., residents frequently access the river for hiking, swimming, and picnicking.

**4 of 6 Describe any proposed ground disturbing activities. That is, will a tool(s) be used to move earth (soil, rock, gravel, etc.) as part of this project? This includes hand or mechanized tools, for example: shovel, auger, pick axe, backhoe, etc. Also include specific information including length, width, and depth of the ground disturbance that will be required for all proposed work, if known. Please avoid subjective phrases such as "ground disturbing activities will be minor".**

A 200 - 400 size class excavator will be used to excavate approximately 15 ft. below existing grade into the gravel bar to place logs and rocks as part of the ELJ. Depth and amount of ELJ material varies depending on structure type. All excavated material will remain on site and be used to back fill the ELJs. Shovels and picks will be used to plant trees at structure locations and disturbed areas following construction.

**5 of 6 Give street address for this worksite if available.**

N/A

**6 of 6 Are there any structures existing on the property (including tidesgates, dikes, etc.)? If so, please list all existing structures. Indicate if any of these structures will be altered or demolished as a result of the project, and provide the following information for each structure that could be altered or demolished: identifying name, year constructed, year(s) remodeled/renovated. Attach at least one photo of each of the proposed altered structures.**

No

## Property for Farmhouse Phase 2b Worksite #1: Harvey Henry

**Activity:** Restoration

**Landowner**

Harvey Henry  
7300 Mount Baker Highway  
Deming, WA

**Control and Tenure**

**Instrument Type:** Landowner Agreement  
**Purchase Type:**  
**Term Length:** Fixed # of years (10 years)  
**Expiration Date:** 12/06/2024  
**Note:**

**Landowner Type:** Private

## Property for Farmhouse Phase 2b Worksite #1: Roger McMunn

**Activity:** Restoration

**Landowner**

Roger McMunn  
6375 Eastwood Rd  
Deming, WA 98244-9536

**Control and Tenure**

**Instrument Type:** Landowner Agreement  
**Purchase Type:**  
**Term Length:** Fixed # of years (5 years)  
**Expiration Date:** 12/06/2018  
**Note:**

**Landowner Type:** Private

## Property for Farmhouse Phase 2b Worksite #1: The Glen Community Association

**Activity:** Restoration

**Landowner**

The Glen at Maple Falls  
7159 Mount Baker Highway  
Deming, WA 98244

**Control and Tenure**

**Instrument Type:** Landowner Agreement  
**Purchase Type:**  
**Term Length:** Fixed # of years (5 years)  
**Expiration Date:** 12/06/2018  
**Note:**

**Landowner Type:** Private

## Property for Farmhouse Phase 2b Worksite #1: WA DNR Aquatic Lands

**Activity:** Restoration

**Landowner**

WA DNR Aquatic Lands  
919 N. Township Street  
Sedro Woolley, WA 98284

**Control and Tenure**

**Instrument Type:** Lease  
**Purchase Type:**  
**Term Length:** Fixed # of years (5 years)  
**Expiration Date:** 12/06/2018  
**Note:**

**Landowner Type:** State Government

## Property for Farmhouse Phase 2b Worksite #1: WA DNR State Lands

**Activity:** Restoration

**Landowner**  
WA DNR State Lands  
919 N. Township Street  
Sedro Woolley, WA 98284

**Control and Tenure**  
**Instrument Type:** Landowner Agreement  
**Purchase Type:**  
**Term Length:** Fixed # of years (5 years)  
**Expiration Date:** 12/06/2014  
**Note:**

**Landowner Type:** State Government

## Overall Project Questions

- 1 of 5 **Is any part of the scope of work included in this application required as mitigation for another project or action? E.g. FERC relicensing, Habitat Conservation Plan, legal settlement, etc. If yes, explain:**  
No
- 2 of 5 **Do you need state SRFB dollars (not Federal) to match the requirements of any other federal funding you will be using to complete this project. If Yes, please state the amount of state dollars needed out of your total request.**  
No, We are still seeking matching funds, it is unknown at this point if there will be match requirements.
- 3 of 5 **Is the project on State Owned Aquatic Lands? Please contact the Washington State Department of Natural Resources to make a determination. ([www.dnr.wa.gov/Publications/aqr\\_land\\_manager\\_map.pdf](http://www.dnr.wa.gov/Publications/aqr_land_manager_map.pdf))**  
Yes, The project is on State Owned Aquatic Lands. We have contacted the WA State Department of Natural Resources for Farmhouse Phase 1 and they are aware that there are multiple phases planned. We will be obtaining a landowner acknowledgement form from them for this project, Phase 2b.
- 4 of 5 **For grants listed in the Sponsor Match Category section on the Funding Request tab, list the grant source(s), when the funds were (or will be) secured, and how long the grant funds will be available to this project.**  
We are still seeking matching funds at this point.
- 5 of 5 **Describe the type and timing of donated labor (skilled and unskilled), donated equipment, and donated materials that will be used for this project, identified in the Sponsor Match Category section on the Funding Request tab.**  
N/A

## Project Permits

Permit Type	Applied Date	Received Date	Expiration Date	Permit Number
Aquatic Lands Use Authorization				
Endangered Species Act Compliance [ESA]				
Hydraulics Project Approval [HPA]				
Nationwide Permit				
SEPA				
Shoreline Permit				
Other Required Permits				
Other Required Permits				

### Permit Questions

- 1 of 2 **If this project requires a federal permit, will the scope of that permit cover ALL proposed ground disturbing activities included in this project? You may need to request a pre-application meeting with the permitting agency to answer this question.**  
Yes, The federal permit obtained for this project under the Fish Passage and Habitat Restoration Programmatic to meet the federal Endangered Species Act (ESA) consultation requirements for bull trout, is the Nationwide Permit (NWP) 27. The project is eligible for the Limit 8 Self Certification in order to meet the federal ESA requirements for Puget Sound Chinook and Puget Sound steelhead. The scope of the Nationwide 27 and Limit 8 cover all ground disturbing activities included in this project and meet the federal permit requirements.
- 2 of 2 **Are you planning on using the federal permit streamlining process (Limit 8, [www.rco.wa.gov/documents/fact\\_sheets/Permit\\_Streamlining\\_fact\\_sheet.pdf](http://www.rco.wa.gov/documents/fact_sheets/Permit_Streamlining_fact_sheet.pdf))?**  
Yes

## Project Attachments

Required Attachments	5 out of 5 done
Cost Estimate	<input checked="" type="checkbox"/>
Map: Area of Potential Effect (APE)	<input checked="" type="checkbox"/>
Map: Restoration Worksite	<input checked="" type="checkbox"/>
Photo	<input checked="" type="checkbox"/>
Salmon Project Proposal	<input checked="" type="checkbox"/>

### Photos

Attachment Type	Title	Attach Date
Cost Estimate	15-1287_Cost_Estimate (Updated).xlsx	07/02/2015
Design document	FINAL_Farmhouse_Ph2A_100%.pdf	07/02/2015
Design document	Final Farmhouse Reach Feasibility Report.pdf	05/14/2015
Design document	Reach-scale hydraulic model output (existing, change with pr.pdf	08/15/2014

Environmental Site Assessment Report	Geomorphic Assessment.pdf	05/16/2014
Map: Restoration Worksite	15-1287_Vicinity (updated project extent).pdf	07/02/2015
Photo	Secondary Photo.jpg	05/16/2014
Photo	Primary Photo.jpg	05/16/2014
Salmon Project Proposal	15-1287-Proposal_2015-0702.docx	07/02/2015
Visuals	15-1287-Figures (updated Figure 8).pdf	07/02/2015
Visuals	15-1287_Benefits (Updated).pdf	07/02/2015

## Application Status

**Application Due Date:** 08/14/2015

Status	Status Date	Name	Notes
Application Submitted	08/13/2015	Treva Coe	Marc, this project is on the funding threshold based on estimates of available funding, and CRT recommended that it be scaled to meet available funding. In talking to Becky, it became clear that there is sufficient uncertainty about available SRFB/PSAR funding, capacity funding (that could fund design projects on the list), and/or leftover PSAR funding (e.g. potentially Black Slough), in addition to any changes that would be mandated by Review Panel. That said, we fully anticipate needing to scale this project over the coming months, and we shall work with you to do that. THanks!!
Preapplication	05/01/2015		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them. (Treva Coe, 08/13/2015)

Date of last change: 08/13/2015